

# SCIEX质谱临床发表文章目录



# 主要内容

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### 临床检验项目篇

1. 类固醇激素类 .....	4
2. 甲状腺激素 .....	26
3. 儿茶酚胺类 .....	28
4. 脂溶性维生素 .....	32
5. 水溶性维生素 .....	39
6. 胆汁酸类 .....	40
7. 氨基酸类 .....	42
8. 蛋白多肽类 .....	44
9. 其他类 .....	47

### 治疗药物监测 (TDM) 篇

1. 镇定止痛药类 .....	49
2. 抗肿瘤类药物 .....	69
3. 精神疾病类药物 .....	80
4. 抗结核药物 .....	93
5. 抗生素类 .....	95
6. 抗真菌类 .....	96
7. 免疫抑制剂类 .....	97
8. 抗病毒类 .....	98
9. 其他类 (阿糖胞苷、氨茶碱、植物激素、地高辛等) .....	100

# 临床检验项目篇





## 类固醇激素类

1. Liquid chromatography-tandem mass spectrometry (LC-MS/MS) assay for simultaneous measurement of salivary testosterone and cortisol in healthy men for utilization in the diagnosis of late-onset hypogonadism in males. *Endocrine journal*.
2. Validation of a high throughput method for serum/plasma testosterone using liquid chromatography tandem mass spectrometry (LC-MS/MS). *Steroids*.
3. Re-examination of testosterone, dihydrotestosterone, estradiol and estrone levels across the menstrual cycle and in postmenopausal women measured by liquid chromatography-tandem mass spectrometry. *Steroids*.
4. Simultaneous determination of salivary testosterone and dehydroepiandrosterone using LC-MS/MS: method development and evaluation of applicability for diagnosis and medication for late-onset hypogonadism. *Journal of Chromatography B*.
5. Column-switching LC-MS/MS analysis for quantitative determination of testosterone. *Clinica Chimica Acta*.
6. Development and validation of a serum total testosterone liquid chromatography-tandem mass spectrometry (LC-MS/MS) assay calibrated to NIST SRM 971. *Clinica Chimica Acta*.
7. Low serum testosterone assayed by liquid chromatography-tandem mass spectrometry. Comparison with five immunoassay techniques. *Clinica Chimica Acta*.
8. Steroid Hormone Profiles of Urban and Tidal Rivers Using LC-MS/MS Equipped with Electrospray Ionization and Atmospheric Pressure Photoionization Sources. *Environmental science & Technology*.

9. Studies on neurosteroids XVIII: LC-MS analysis of changes in rat brain and serum testosterone levels induced by immobilization stress and ethanol administration. *Steroids*.
10. LC-ESI-MS/MS analysis of testosterone at sub-picogram levels using a novel derivatization reagent. *Testosterone*.
11. A sensitive, simple and robust LC-MS/MS method for the simultaneous quantification of seven androgen-and estrogen-related steroids in postmenopausal serum. *Journal of Steroid Biochemistry and Molecular Biology*.
12. Automated, fast and sensitive quantification of 17  $\alpha$ -hydroxy-progesterone, androstenedione and testosterone by tandem mass spectrometry with on-line extraction. *Steroids*.
13. Liquid chromatography-tandem mass spectrometry assay for androstenedione, dehydroepiandrosterone, and testosterone with pediatric and adult reference intervals. *Clinical Chemistry*.
14. Quantitative LC-MS/MS method for the sensitive and simultaneous determination of natural hormones in bovine serum. *Journal of Chromatography B*.
15. Simultaneous quantitation of testosterone, estradiol, ethinyl estradiol, and 11 - ketotestosterone in fathead minnow fish plasma by liquid chromatography/positive atmospheric pressure photoionization tandem mass spectrometry. *Rapid Communications in Mass Spectrometry*.
16. Liquid chromatography-tandem mass spectrometry assay for human serum testosterone and trideuterated testosterone. *Journal of Chromatography B*.
17. Measurement of total serum testosterone in adult men: comparison of current laboratory methods versus liquid chromatography-tandem mass spectrometry. *The Journal of Clinical Endocrinology & Metabolism*.
18. Determination of free and deconjugated testosterone and epitestosterone in urine using SPME and LC-MS/MS. *Bioanalysis*.

19. Validation of a testosterone and dihydrotestosterone liquid chromatography tandem mass spectrometry assay: interference and comparison with established methods. *Steroids*.
20. Determination of testosterone in serum by liquid chromatography-tandem mass spectrometry. *Scandinavian Journal of Clinical and Laboratory Investigation*.
21. Simultaneous measurement of serum testosterone and dihydrotestosterone by liquid chromatography-tandem mass spectrometry. *Clinical Chemistry*.
22. A critical evaluation of salivary testosterone as a method for the assessment of serum testosterone. *Steroids*.
23. Ultra-performance liquid chromatography/tandem mass spectrometric determination of testosterone and its metabolites in in vitro samples. *Rapid Communications in Mass Spectrometry*.
24. Serum testosterone levels measured by isotope dilution-liquid chromatography-tandem mass spectrometry in postmenopausal women versus those in women who underwent bilateral oophorectomy. *Annals of Clinical Biochemistry*.
25. Development of highly sensitive quantification method for testosterone and dihydrotestosterone in human serum and prostate tissue by liquid chromatography-electrospray ionization tandem mass spectrometry. *Steroids*.
26. Isotope-Dilution Liquid Chromatography-Tandem Mass Spectrometry Candidate Reference Method for Total Testosterone in Human Serum. *Clinical Chemistry*.
27. Performance characteristics of a novel tandem mass spectrometry assay for serum testosterone. *Clinical Chemistry*.
28. Development and evaluation of a candidate reference measurement procedure for the determination of testosterone in human serum using isotope



- dilution liquid chromatography/tandem mass spectrometry. Analytical and Bioanalytical Chemistry.
29. Multi-residue analysis of steroids at sub-ng/L levels in surface and ground-waters using liquid chromatography coupled to tandem mass spectrometry. Journal of Chromatography A.
  30. Rapid determination of serum testosterone by liquid chromatography-isotope dilution tandem mass spectrometry and a split sample comparison with three automated immunoassays. Clinical Biochemistry.
  31. Measurement of estradiol, estrone, and testosterone in postmenopausal human serum by isotope dilution liquid chromatography tandem mass spectrometry without derivatization. Steroids.
  32. Pediatric reference intervals for aldosterone, 17  $\alpha$ -hydroxyprogesterone, dehydroepiandrosterone, testosterone and 25-hydroxy vitamin D3 using tandem mass spectrometry. Clinical Biochemistry.
  33. Testosterone metabolic clearance and production rates determined by stable isotope dilution/tandem mass spectrometry in normal men: influence of ethnicity and age. The Journal of Clinical Endocrinology & Metabolism.
  34. Steroid Profiling in Nails Using Liquid Chromatography-Tandem Mass Spectrometry. Steroids.
  35. Quantitative characterization of UDP-glucuronosyltransferase 2B17 in human liver and intestine and its role in testosterone first-pass metabolism. Biochemical Pharmacology.
  36. Cross-method comparison of serum androstenedione measurement with respect to the validation of a new fully automated chemiluminescence immunoassay. Clinical Biochemistry.
  37. An LC-MS/MS analysis for seven sex hormones in serum. Journal of Pharmaceutical and Biomedical Analysis.

38. Quantification of 27 yolk steroid hormones in seven shrubland bird species: interspecific patterns of hormone deposition, and links to life history, development, and predation risk. *Canadian Journal of Zoology*.
39. Evaluation of a multiplex liquid chromatography-tandem mass spectrometry method for congenital adrenal hyperplasia in pediatric patients. *Clinical Mass Spectrometry*.
40. Standardized LC-MS/MS based steroid hormone profile-analysis. *The Journal of Steroid Biochemistry and Molecular Biology*.
41. Quantitative analysis of steroid hormones in human hair using a column-switching LC-APCI-MS/MS assay. *Journal of Chromatography B*.
42. An LC-MS/MS method for steroid profiling during adrenal venous sampling for investigation of primary aldosteronism. *The Journal of Steroid Biochemistry and Molecular Biology*.
43. Multisteroid LC-MS/MS assay for glucocorticoids and androgens and its application in Addison's disease. *Endocrine Connections*.
44. Multi-residue analysis of free and conjugated hormones and endocrine disruptors in rat testis by QuEChERS-based extraction and LC-MS/MS. *Analytical and Bioanalytical Chemistry*.
45. An LC-MS/MS method for steroid profiling during adrenal venous sampling for investigation of primary aldosteronism. *The Journal of Steroid Biochemistry and Molecular Biology*.
46. Simultaneous determination of 17  $\alpha$ -hydroxypregnenolone and 17  $\alpha$ -hydroxyprogesterone in dried blood spots from low birth weight infants using LC-MS/MS. *Journal of Pharmaceutical and Biomedical Analysis*.
47. Clinical determination of 17-hydroxyprogesterone in serum by LC-MS/MS: Comparison to Coat-A-Count™ RIA method. *Journal of Chromatography B*.



48. Performance enhancement in the measurement of 5 endogenous steroids by LC-MS/MS combined with differential ion mobility spectrometry. *Clinica Chimica Acta*.
49. Liquid chromatography quadrupole linear ion trap mass spectrometry for quantitative steroid hormone analysis in plasma, urine, saliva and hair. *Journal of Chromatography A*.
50. An automated method on analysis of blood steroids using liquid chromatography tandem mass spectrometry: application to population screening for congenital adrenal hyperplasia in newborns. *Clinica Chimica Acta*.
51. Slow-wave sleep and androgens: selective slow-wave sleep suppression affects testosterone and 17  $\alpha$  -hydroxyprogesterone secretion. *Sleep Medicine*.
52. Validated LC-MS/MS simultaneous assay of five sex steroid/neurosteroid-related sulfates in human serum. *The Journal of Steroid Biochemistry and Molecular Biology*.
53. Rapid quantification of steroid patterns in human serum by on-line solid phase extraction combined with liquid chromatography-triple quadrupole linear ion trap mass spectrometry. *Clinica Chimica Acta*.
54. Steroid profiles using liquid chromatography-tandem mass spectrometry with atmospheric pressure photoionization source. *Archives of Pathology & Laboratory Medicine*.
55. Simultaneous determination of hair cortisol, cortisone and DHEAS with liquid chromatography-electrospray ionization-tandem mass spectrometry in negative mode. *Journal of Chromatography B*.
56. Determination of seven selected neuro- and immunomodulatory steroids in human cerebrospinal fluid and plasma using LC-MS/MS. *Steroids*.
57. Steroid hormone profiles of urban and tidal rivers using LC-MS/MS equipped

- with electrospray ionization and atmospheric pressure photoionization sources. Environmental science & technology.
58. Determination of salivary dehydroepiandrosterone using liquid chromatography-tandem mass spectrometry combined with charged derivatization. Journal of Chromatography B.
  59. Steroid hormone levels in pregnancy and 1 year postpartum using isotope dilution tandem mass spectrometry. Fertility and sterility.
  60. Development of an LC-MS/MS method to quantify sex hormones in bovine milk and influence of pregnancy in their levels. Food Additives & Contaminants.
  61. Automated on-line SPE LC-MS/MS method to quantitate 6beta-hydroxycortisol and cortisol in human urine: Use of the 6beta-hydroxycortisol to cortisol ratio as an indicator of CYP3A4 activity. Journal of Chromatography B.
  62. Quantification of cortisol and 6 beta-hydroxycortisol in human urine by LC-MS/MS, and gender-specific evaluation of the metabolic ratio as biomarker of CYP3A activity. Journal of Chromatography B.
  63. Liquid chromatography-tandem mass spectrometry analysis of urinary free cortisol. Clinical chemistry.
  64. Validation of a high-throughput liquid chromatography-tandem mass spectrometry method for urinary cortisol and cortisone. Clinical Chemistry.
  65. Determination of cortisol in human saliva using liquid chromatography-electrospray tandem mass spectrometry. Journal of Chromatography B.
  66. Cortisol and cortisone analysis in serum and plasma by atmospheric pressure photoionization tandem mass spectrometry. Clinical biochemistry.
  67. A simple LC-MS/MS method for the determination of cortisol, cortisone and tetrahydro-metabolites in human urine: Assay development, validation and

- application in depression patients. Journal of pharmaceutical and biomedical analysis.
68. Validation of an LC-MS/MS salivary assay for glucocorticoid status assessment: evaluation of the diurnal fluctuation of cortisol and cortisone and of their association within and between serum and saliva. The Journal of steroid biochemistry and molecular biology.
  69. Comparison of salivary cortisol as measured by different immunoassays and tandem mass spectrometry. Psychoneuroendocrinology.
  70. Determination of the glucocorticoids prednisone, prednisolone, dexamethasone, and cortisol in human serum using liquid chromatography coupled to tandem mass spectrometry. Journal of Chromatography B.
  71. Determination of salivary cortisol by liquid chromatography-tandem mass spectrometry. Scandinavian journal of clinical and laboratory investigation.
  72. Determination of urinary free cortisol by liquid chromatography - tandem mass spectrometry. Scandinavian journal of clinical and laboratory investigation.
  73. Hair cortisol as a biomarker of traumatization in healthy individuals and posttraumatic stress disorder patients. Biological psychiatry.
  74. Immunoassay or LC-MS/MS for the measurement of salivary cortisol in children?. Clinical Chemistry and Laboratory Medicine.
  75. Pseudo-Cushing syndrome caused by fenofibrate interference with urinary cortisol assayed by high-performance liquid chromatography. The Journal of Clinical Endocrinology & Metabolism.
  76. Development of an LC-MS/MS method for the determination of endogenous cortisol in hair using  $^{13}\text{C}_3$ -labeled cortisol as surrogate analyte. Journal of Chromatography B.



77. Development of a sensitive and selective method for the quantitative analysis of cortisol, cortisone, prednisolone and prednisone in human plasma. *Journal of Chromatography B*.
78. Simultaneous quantification of 17  $\alpha$  -OH progesterone, 11-deoxycortisol,  $\Delta$ 4-androstenedione, cortisol and cortisone in newborn blood spots using liquid chromatography-tandem mass spectrometry. *Journal of Chromatography B*.
79. Two simple cleanup methods combined with LC-MS/MS for quantification of steroid hormones in in vivo and in vitro assays. *Analytical and bioanalytical chemistry*.
80. A sensitive and rapid mass spectrometric method for the simultaneous measurement of eight steroid hormones and CALIPER pediatric reference intervals. *Clinical biochemistry*.
81. Sample preparation and liquid chromatography-tandem mass spectrometry for multiple steroids in mammalian and avian circulation. *PLoS One*.
82. Reference intervals for plasma concentrations of adrenal steroids measured by LC-MS/MS: impact of gender, age, oral contraceptives, body mass index and blood pressure status. *Clinica Chimica Acta*.
83. Sensitive simultaneous quantitation of testosterone and estradiol in serum by LC-MS/MS without derivatization and comparison with the CDC HoSt program. *Journal of Chromatography B*.
84. Steroid hormone levels associated with passive and active smoking. *Steroids*.
85. Development of a multi-class steroid hormone screening method using Liquid Chromatography/Tandem Mass Spectrometry. *Analytical and bioanalytical chemistry*.
86. Liquid chromatography-tandem mass spectrometry analysis of human adre-

- nal vein corticosteroids before and after adrenocorticotrophic hormone stimulation. *Journal of pharmaceutical and biomedical analysis*.
87. Concurrent confirmation and differential diagnosis of congenital adrenal hyperplasia from dried blood spots: application of a second-tier LC-MS/MS assay in a cross-border cooperation for newborn screening. *Hormone research in paediatrics*.
  88. A liquid chromatography/tandem mass spectrometry profile of 16 serum steroids, including 21-deoxycortisol and 21-deoxycorticosterone, for management of congenital adrenal hyperplasia. *Journal of the Endocrine Society*.
  89. Quantitative measurements of corticosteroids in ex vivo samples using on-line SPE-LC-MS/MS. *Journal of Chromatography B*.
  90. Simultaneous determination of 12 steroids by isotope dilution liquid chromatography-photospray ionization tandem mass spectrometry. *Clinica chimica acta*.
  91. Quantification of dexamethasone and corticosterone in rat biofluids and fetal tissue using highly sensitive analytical methods: assay validation and application to a pharmacokinetic study. *Biomedical Chromatography*.
  92. Cortisol and corticosterone independence in cortisol-dominant wildlife. *General and comparative endocrinology*.
  93. Determination of endogenous corticosterone in rodent's blood, brain and hair with LC-APCI-MS/MS. *Journal of Chromatography B*.
  94. Serum steroid profiling by isotopic dilution-liquid chromatography-mass spectrometry: comparison with current immunoassays and reference intervals in healthy adults. *Steroids*.
  95. Sample preparation and liquid chromatography-tandem mass spectrometry for multiple steroids in mammalian and avian circulation. *PLoS One*.

96. The human fetus preferentially secretes corticosterone, rather than cortisol, in response to intra-partum stressors. *PLoS One*.
97. Changes in plasma concentrations of corticosterone and its precursors after ketoconazole administration in rats: An application of simultaneous measurement of multiple steroids using LC-MS/MS. *Experimental and Toxicologic Pathology*.
98. Determination of 26 endocrine disrupting chemicals in fish and water using modified QuEChERS combined with solid-phase extraction and UHPLC-MS/MS. *Analytical Methods*.
99. Reexamination of testosterone, dihydrotestosterone, estradiol and estrone levels across the menstrual cycle and in postmenopausal women measured by liquid chromatography-tandem mass spectrometry. *Steroids*.
100. Development and validation of a sensitive liquid chromatography-tandem mass spectrometry assay to simultaneously measure androgens and estrogens in serum without derivatization. *Clinica Chimica Acta*.
101. Measurement of estradiol in human serum by LC-MS/MS using a novel estrogen-specific derivatization reagent. *Analytical chemistry*.
102. Quantitative measurement of male steroid hormones using automated on-line solid phase extraction-liquid chromatography-tandem mass spectrometry and comparison with radioimmunoassay. *Analyst*.
103. Determination of prostatic androgens in 10 mg of tissue using liquid chromatography-tandem mass spectrometry with charged derivatization. *Analytical and bioanalytical chemistry*.
104. Measurement of sex steroids in murine blood and reproductive tissues by liquid chromatography-tandem mass spectrometry. *The Journal of steroid biochemistry and molecular biology*.



105. Analysis of testosterone and dihydrotestosterone in mouse tissues by liquid chromatography-electrospray ionization-tandem mass spectrometry. Analytical biochemistry.
106. Steroid profiles in ovarian follicular fluid in women with and without polycystic ovary syndrome, analyzed by liquid chromatography-tandem mass spectrometry. Fertility and sterility.
107. Steroid profiles in ovarian follicular fluid from regularly menstruating women and women after ovarian stimulation. Clinical chemistry.
108. 2-Hydrazino-1-methylpyridine: a highly sensitive derivatization reagent for oxosteroids in liquid chromatography-electrospray ionization-mass spectrometry. Journal of Chromatography B.
109. Liquid chromatography - tandem mass spectrometry (LC-MS/MS) for analysis of endogenous steroids in the luteal phase and early pregnancy in dogs: a pilot study. Veterinary clinical pathology.
110. Simultaneous determination of three estrogens in human saliva without derivatization or liquid-liquid extraction for routine testing via miniaturized solid phase extraction with LC-MS/MS detection. Talanta.
111. Syringe cleanup with UHPLC-MS/MS for nitroimidazoles and steroids detection in manure - based fertilizers. Journal of separation science.
112. LC-MS/MS coupled with immunoaffinity extraction for determination of estrone, 17  $\beta$  -estradiol and estrone 3-sulfate in human plasma. Journal of Chromatography B.
113. Combining passive samplers and biomonitors to evaluate endocrine disrupting compounds in a wastewater treatment plant by LC-MS/MS and bioassay analyses. Environmental pollution.
114. High sensitivity measurement of estrone and estradiol in serum and plasma

- using LC-MS/MS. Clinical Applications of Mass Spectrometry.
115. Liquid chromatography-tandem mass spectrometry assay for simultaneous measurement of estradiol and estrone in human plasma. Clinical chemistry.
  116. Development and validation of LC-MS/MS method for quantification of bisphenol A and estrogens in human plasma and seminal fluid. Talanta.
  117. Development of a highly sensitive method for the quantification of estrone and estradiol in serum by liquid chromatography tandem mass spectrometry without derivatization. Journal of Chromatography B.
  118. High-sensitivity tandem mass spectrometry assay for serum estrone and estradio. American journal of clinical pathology.
  119. Bioassay-directed chemical analysis utilizing LC-MS: a tool for identifying estrogenic compounds in water samples?. Analytical and bioanalytical chemistry.
  120. Multi-residue analysis of emerging pollutants in sediment using QuEChERS-based extraction followed by LC-MS/MS analysis. Analytical and bioanalytical chemistry.
  121. Fully automated analysis of estrogens in environmental waters by in-tube solid-phase microextraction coupled with liquid chromatography-tandem mass spectrometry. Journal of Chromatography A.
  122. Development of a method for the analysis of hormones and pharmaceuticals in earthworms by quick, easy, cheap, effective, rugged and safe (QuEChERS) extraction followed by liquid chromatography-tandem mass spectrometry. Analytical and bioanalytical chemistry.
  123. Quantification of steroids and endocrine disrupting chemicals in rat ovaries by LC-MS/MS for reproductive toxicology assessment. Analytical and bioanalytical chemistry.

124. Analysis of selected natural and synthetic hormones by LC-MS-MS using the US EPA method 1694. Analytical Methods.
125. Evaluation of electrospray ionization and atmospheric pressure chemical ionization for simultaneous detection of estrone and its metabolites using high-performance liquid chromatography/tandem mass spectrometry. Journal of Chromatography B.
126. Trace level quantification of deuterated  $17\beta$ -estradiol and estrone in ovariectomized mouse plasma and brain using liquid chromatography/tandem mass spectrometry following dansylation reaction. Rapid communications in mass spectrometry.
127. Bovine Colostrum: Determination of Naturally Occurring Steroid Hormones by Liquid Chromatography Tandem Mass Spectrometry (LC- MS/MS). Journal of agricultural and food chemistry.
128. Monitoring natural and synthetic estrogens at activated sludge sewage treatment plants and in a receiving river water. Environmental Science & Technology.
129. Screening of pharmaceuticals and hormones at the regional scale, in surface and groundwaters intended to human consumption. Environmental pollution.
130. Age trends in estradiol and estrone levels measured using liquid chromatography tandem mass spectrometry in community-dwelling men of the Framingham Heart Study. Journals of Gerontology Series A.
131. Development of a faster determination of 10 anabolic steroids residues in animal muscle tissues by liquid chromatography tandem mass spectrometry. Journal of pharmaceutical and biomedical analysis.
132. On-line solid-phase extraction with on-support derivatization for high-sensitivity liquid chromatography tandem mass spectrometry of estrogens in influent/effluent of wastewater treatment plants. Journal of Chromatography A.



133. Sensitive routine liquid chromatography-tandem mass spectrometry method for serum estradiol and estrone without derivatization. Analytical and bioanalytical chemistry.
134. Development and Evaluation of a Reference Measurement Procedure for the Determination of Estradiol-17  $\beta$  in Human Serum Using Isotope-Dilution Liquid Chromatography - Tandem Mass Spectrometry. Analytical chemistry.
135. Specificity and regioselectivity of the conjugation of estradiol, estrone, and their catecholestrogen and methoxyestrogen metabolites by human uridine diphospho-glucuronosyltransferases expressed in endometrium. The Journal of Clinical Endocrinology & Metabolism.
136. Solid phase extraction coupled to liquid chromatography-tandem mass spectrometry analysis of sulfonamides, tetracyclines, analgesics and hormones in surface water and wastewater in Luxembourg. Science of the Total Environment,.
137. Study of Dexamethasone urinary excretion profile in cattle by LC-MS/MS: comparison between therapeutic and growth-promoting administration. Journal of agricultural and food chemistry.
138. A screening method for the simultaneous detection of glucocorticoids, diuretics, stimulants, anti-oestrogens, beta-adrenergic drugs and anabolic steroids in human urine by LC-ESI-MS/MS. Analytical and bioanalytical chemistry.
139. Development and validation of LC-MS/MS method for the determination of cyproheptadine in several pharmaceutical syrup formulations. Journal of pharmaceutical and biomedical analysis.
140. A simple and rapid ESI-LC-MS/MS method for simultaneous screening of doping agents in urine samples. Indian journal of pharmacology.
141. Simultaneous determination of cortisol, dexamethasone, methylprednisolone, prednisone, prednisolone, mycophenolic acid and mycophenolic acid

- glucuronide in human plasma utilizing liquid chromatography-tandem mass spectrometry. *Journal of Chromatography B*.
142. Development and validation of a highly sensitive LC-MS/MS method for the determination of dexamethasone in nude mice plasma and its application to a pharmacokinetic study. *Biomedical Chromatography*.
  143. Simultaneous quantitation of dexamethasone palmitate and dexamethasone in human plasma by liquid chromatography/tandem mass spectrometry. *Journal of Chromatography B*.
  144. Development and validation of an HPLC-MS/MS method for the analysis of dexamethasone from pig synovial fluid using dried matrix spotting. *Bioanalysis*.
  145. Development and validation of a fast and sensitive bioanalytical method for the quantitative determination of glucocorticoids-quantitative measurement of dexamethasone in rabbit ocular matrices by liquid chromatography tandem mass spectrometry. *Journal of pharmaceutical and biomedical analysis*.
  146. Synthesis and evaluation of a well-defined HPMA copolymer-dexamethasone conjugate for effective treatment of rheumatoid arthritis. *Pharmaceutical research*.
  147. Effects of low-dose dexamethasone and prednisolone long term administration in beef calf: chemical and morphological investigation. *Analytica chimica acta*.
  148. Characterization of human corneal epithelial cell model as a surrogate for corneal permeability assessment: metabolism and transport. *Drug Metabolism and Disposition*.
  149. Dexamethasone suppression test: development of a method for simultaneous determination of cortisol and dexamethasone in human plasma by liquid chromatography/tandem mass spectrometry. *Annals of clinical biochemistry*.

150. Determination of dexamethasone and dexamethasone sodium phosphate in human plasma and cochlear perilymph by liquid chromatography/tandem mass spectrometry. *Journal of Chromatography B*.
151. Comprehensive screening of acidic and neutral drugs in equine plasma by liquid chromatography-tandem mass spectrometry. *Journal of Chromatography A*.
152. Development of a rapid method for the analysis of synthetic growth promoters in bovine muscle using liquid chromatography tandem mass spectrometry. *Analytica chimica acta*.
153. Highly selective and automated online SPE LC-MS3 method for determination of cortisol and cortisone in human hair as biomarker for stress related diseases. *Talanta*.
154. Improved liquid chromatography-tandem mass spectrometry method in clinical utility for the diagnosis of Cushing's syndrome. *Analytical and bioanalytical chemistry*.
155. Analysis of cortisol, cortisone and dexamethasone in human serum using liquid chromatography tandem mass spectrometry and assessment of cortisol: cortisone ratios in patients with impaired kidney function. *Clinica Chimica Acta*.
156. Surface plasmon resonance immunosensor for cortisol and cortisone determination. *Analytical and bioanalytical chemistry*.
157. Simultaneous measurements of cortisol and cortisone in urine and hair for the assessment of 11  $\beta$  -hydroxysteroid dehydrogenase activity among methadone maintenance treatment patients with LC-ESI-MS/MS. *Journal of Chromatography B*.
158. Association of serum lipid concentrations, insulin resistance index and catch-up growth with serum cortisol/cortisone ratio by liquid chromatography tan-



- dem mass spectrometry in children born small for gestational age. Pediatric research.
159. High cortisol and cortisone levels are associated with breast milk dioxin concentrations in Vietnamese women. *European journal of endocrinology*.
  160. Determination of M+ 4 stable isotope labeled cortisone and cortisol in human plasma by  $\mu$ Elution solid - phase extraction and liquid chromatography/tandem mass spectrometry. *Rapid Communications in Mass Spectrometry*.
  161. Quantitative analysis of estradiol and six other steroid hormones in human saliva using a high throughput liquid chromatography-tandem mass spectrometry assay. *Talanta*.
  162. Simultaneous determination of cortisol and cortisone from human serum by liquid chromatography-tandem mass spectrometry. *Journal of analytical methods in chemistry*.
  163. Vortex-assisted surfactant-enhanced emulsification microextraction combined with LC-MS/MS for the determination of glucocorticoids in water with the aid of experimental design. *Analytical and bioanalytical chemistry*.
  164. Simultaneous quantitative determination of norgestrel and progesterone in human serum by high-performance liquid chromatography-tandem mass spectrometry with atmospheric pressure chemical ionization. *Analyst*.
  165. Development and evaluation of a candidate reference measurement procedure for the determination of progesterone in human serum using isotope-dilution liquid chromatography/tandem mass spectrometry. *Analytical chemistry*.
  166. Sensitive simultaneous quantitation of testosterone and estradiol in serum by LC-MS/MS without derivatization and comparison with the CDC HoSt program. *Journal of Chromatography B*.
  167. Development and validation of LC-MS/MS assay for the quantification of pro-

- gesterone in rat plasma and its application to pharmacokinetic studies. Drug research.
168. Precision of progesterone measurements with the use of automated immunoassay analyzers and the impact on clinical decisions for in vitro fertilization. Fertility and sterility,.
  169. Combined quantification of corticotropin-releasing hormone, cortisol-to-cortisone ratio and progesterone by liquid chromatography-tandem mass spectrometry in placental tissue. Steroids.
  170. Simultaneous analysis of 17  $\alpha$ -estradiol and 17  $\beta$ -estradiol in bovine serum by liquid chromatography-tandem mass spectrometry. Journal of Chromatography B.
  171. New quantification method for estradiol in the prostatic tissues of benign prostatic hyperplasia using liquid chromatography-tandem mass spectrometry. Steroids.
  172. Liquid chromatography-tandem mass spectrometry assay for simultaneous measurement of estradiol and estrone in human plasma. Clinical chemistry.
  173. Fully automated analysis of estrogens in environmental waters by in-tube solid-phase microextraction coupled with liquid chromatography-tandem mass spectrometry. Journal of Chromatography A.
  174. Rapid measurement of estrogens and their metabolites in human serum by liquid chromatography-tandem mass spectrometry without derivatization. Clinical biochemistry.
  175. Measurement of Unconjugated Estriol in Serum by Liquid Chromatography-Tandem Mass Spectrometry and Assessment of the Accuracy of Chemiluminescent Immunoassays. Clinical Chemistry.
  176. Development and validation of an analytical method by LC-MS/MS for the

- quantification of estrogens in sewage sludge. Analytical and bioanalytical chemistry.
177. Analysis of free estrogens and their conjugates in sewage and river waters by solid-phase extraction then liquid chromatography-electrospray-tandem mass spectrometry. *Chromatographia*.
  178. Removal of endocrine disrupting compounds and pharmaceuticals by nanofiltration and ultrafiltration membranes. *Desalination*.
  179. Liquid chromatography-tandem mass spectrometry analysis of estrogenic compounds in coastal surface water of the Baltic Sea. *Journal of Chromatography A*.
  180. Determination of aldosterone in serum by liquid chromatography-tandem mass spectrometry. *Journal of Chromatography B*.
  181. Supported liquid extraction offers improved sample preparation for aldosterone analysis by liquid chromatography tandem mass spectrometry. *Journal of clinical pathology*.
  182. Determination of serum aldosterone by liquid chromatography and tandem mass spectrometry: a liquid-liquid extraction method for the ABSCIEX API-5000 mass spectrometry system. *Journal of clinical pathology*.
  183. Serum and Urine Aldosterone By LC-MS/MS With An Automated Off-Line Extraction. *Clinical Chemistry*.
  184. Liquid chromatography quadrupole linear ion trap mass spectrometry for quantitative steroid hormone analysis in plasma, urine, saliva and hair. *Journal of Chromatography A*.
  185. Presence and concentration of 17 hormones in human placenta processed for encapsulation and consumption. *Placenta*.
  186. Metabolism of melatonin by human cytochromes p450. *Drug Metabolism and*



Disposition.

187. LC-MS/MS-based quantification of kynurenine metabolites, tryptophan, monoamines and neopterin in plasma, cerebrospinal fluid and brain. *Bioanalysis*.
188. A novel LC-MS/MS assay for the simultaneous determination of melatonin and its two major metabolites, 6-hydroxymelatonin and 6-sulfatoxymelatonin in dog plasma: Application to a pharmacokinetic study. *Journal of pharmaceutical and biomedical analysis*.
189. Predominance of 2-hydroxymelatonin over melatonin in plants. *Journal of pineal research*.
190. Metabolism of melatonin and biological activity of intermediates of melatonergic pathway in human skin cells. *The FASEB Journal*.
191. Rapid and sensitive analysis of melatonin by LC-MS/MS and its application to pharmacokinetic study in dogs. *Asian journal of pharmaceutical sciences*.
192. Novel tryptamine-related substances, 5-sulphatoxydiacetyltryptamine, 5-hydroxydiacetyltryptamine, and reduced melatonin in human urine and the determination of those compounds, 6-sulphatoxymelatonin, and melatonin with fluorometric HPLC. *Journal of Chromatography B*.
193. The application and validation of HybridSPE-Precipitation cartridge technology for the rapid clean-up of serum matrices (from phospholipids) for the clinical analysis of serotonin, dopamine and melatonin. *Chromatographia*.
194. Assessing melatonin and its oxidative metabolites amounts in biological fluid and culture medium by liquid chromatography electrospray ionization tandem mass spectrometry (LC-ESI-MS/MS). *Analytical Methods*.
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197. Analysis of multiplex endogenous estrogen metabolites in human urine using ultra-fast liquid chromatography-tandem mass spectrometry: A case study for breast cancer. *Analytica chimica acta*.
198. Reassessing Free-Testosterone Calculation by Liquid Chromatography-Tandem Mass Spectrometry Direct Equilibrium Dialysis. Clinical Research Article.

## 甲状腺激素

1. Trimester-specific reference intervals for thyroxine and triiodothyronine in pregnancy in iodine-sufficient women using isotope dilution tandem mass spectrometry and immunoassays. *Clinica Chimica Acta*.
2. Simultaneous quantification of free triiodothyronine and free thyroxine by isotope dilution tandem mass spectrometry. *Clinical biochemistry*.
3. Trimester-specific changes in maternal thyroid hormone, thyrotropin, and thyroglobulin concentrations during gestation: trends and associations across trimesters in iodine sufficiency. *Thyroid*.
4. Correlation between Serum Levels of 3, 3, 5-Triiodothyronine and Thyroid Hormones Measured by Liquid Chromatography-Tandem Mass Spectrometry and Immunoassay. *PloS one*.
5. Isotope dilution tandem mass spectrometric method for T4/T3. *Clinica chimica acta*.
6. Differences between measurements of T4 and T3 in pregnant and nonpregnant women using isotope dilution tandem mass spectrometry and immunoassays: are there clinical implications? *Clinica chimica acta*.
7. The measurement of free thyroxine by isotope dilution tandem mass spectrometry. *Clinica chimica acta*.
8. Analysis of thyroid hormones in serum of Baikal seals and humans by liquid chromatography-tandem mass spectrometry (LC-MS/MS) and immunoassay methods: application of the LC-MS/MS method to wildlife tissues. *Environmental science & technology*.
9. Developmental triclosan exposure decreases maternal, fetal, and early neonatal thyroxine: a dynamic and kinetic evaluation of a putative mode-of-



action. Toxicology.

10. Tandem mass spectrometry improves the accuracy of free thyroxine measurements during pregnancy. Thyroid.
11. Differences between measurements of T4 and T3 in pregnant and nonpregnant women using isotope dilution tandem mass spectrometry and immunoassays: are there clinical implications?. Clinica chimica acta.
12. Relationship of urinary phthalate metabolites with serum thyroid hormones in pregnant women and their newborns: a prospective birth cohort in Taiwan. PloS one.
13. A pilot study: subclinical hypothyroidism and free thyroid hormone measurement by immunoassay and mass spectrometry. Clinica Chimica Acta.
14. Inverse log-linear relationship between thyroid-stimulating hormone and free thyroxine measured by direct analog immunoassay and tandem mass spectrometry. Clinical chemistry.
15. Quantification of thyroxine and 3, 5, 3'-triiodo-thyronine in human and animal hearts by a novel liquid chromatography-tandem mass spectrometry method. Hormone and Metabolic Research.
16. Free Thyroid Hormones in Serum by Direct Equilibrium Dialysis and Online Solid-Phase Extraction-Liquid Chromatography/Tandem Mass Spectrometry. Clinical Chemistry.
17. Determination of free thyroid hormones in animal serum/plasma using ultrafiltration in combination with ultra-fast liquid chromatography-tandem mass spectrometry. Journal of Chromatography A.

## 儿茶酚胺类激素

1. Simultaneous determination of sixteen underivatized biogenic amines in human urine by HPLC-MS/MS. Analytical and bioanalytical chemistry.
2. Quantitative determination of adrenaline and noradrenaline in urine using liquid chromatography-tandem mass spectrometry. Chromatographia.
3. Measurement of plasma free metanephrine and normetanephrine by liquid chromatography-tandem mass spectrometry for diagnosis of pheochromocytoma. Clinical chemistry.
4. Validation of liquid chromatography-tandem mass spectrometry method for analysis of urinary conjugated metanephrine and normetanephrine for screening of pheochromocytoma. Clinical chemistry.
5. Pre-analytical and analytical validations and clinical applications of a miniaturized, simple and cost-effective solid phase extraction combined with LC-MS/MS for the simultaneous determination of catecholamines and metanephrines in spot urine samples. Talanta.
6. Analysis of plasma 3-methoxytyramine, normetanephrine and metanephrine by ultraperformance liquid chromatography tandem mass spectrometry: utility for diagnosis of dopamine-producing metastatic phaeochromocytoma. Annals of clinical biochemistry.
7. Development and validation of a specific and sensitive LC-MS/MS method for quantification of urinary catecholamines and application in biological variation studies. Analytical and bioanalytical chemistry.
8. Interference from 3-O-Methyldopa with Ultra-High Performance LC-MS/MS Measurements of Plasma Metanephrines: Chromatographic Separation Remains Important. Clinical chemistry.

9. Simultaneous liquid chromatography tandem mass spectrometric determination of urinary free metanephrines and catecholamines, with comparisons of free and deconjugated metabolites. *Clinica Chimica Acta*.
10. Diethylation labeling combined with UPLC-MS/MS for simultaneous determination of a panel of monoamine neurotransmitters in rat prefrontal cortex microdialysates. *Analytical chemistry*.
11. Simultaneous determination of plasma epinephrine and norepinephrine using an integrated strategy of a fully automated protein precipitation technique, reductive ethylation labeling and UPLC-MS/MS. *Analytica chimica acta*.
12. Urinary metanephrines by liquid chromatography tandem mass spectrometry: Using multiple quantification methods to minimize interferences in a high throughput method. *Journal of chromatography B*.
13. Levodopa therapy in Parkinson's disease: influence on liquid chromatographic tandem mass spectrometric-based measurements of plasma and urinary normetanephrine, metanephrine and methoxytyramine. *Annals of clinical biochemistry*.
14. Multiple Reaction monitoring with multistage fragmentation (MRM<sup>3</sup>) detection enhances selectivity for liquid chromatography-tandem mass spectrometry analysis of plasma free metanephrines. *Clinical chemistry*.
15. Sensitive, rapid and easy analysis of three catecholamine metabolites in human urine and serum by liquid chromatography tandem mass spectrometry. *Journal of chromatographic science*.
16. Quantification of metanephrine and normetanephrine in urine using liquid chromatography-tandem mass spectrometry. *Clinical Applications of Mass Spectrometry in Biomolecular Analysis*.
17. Quantitation of free metanephrines in plasma by liquid chromatography-tan-



- dem mass spectrometry. *Clinical Applications of Mass Spectrometry in Biomolecular Analysis*.
18. A sensitive, high-throughput LC-MS/MS method for measuring catecholamines in low volume serum. *Analytica Chimica Acta*.
  19. Use of LC/MS to assess brain tracer distribution in preclinical, in vivo receptor occupancy studies: dopamine D2, serotonin 2A and NK-1 receptors as examples. *Life sciences*.
  20. Quantitative determination of free and total dopamine in human plasma by LC-MS/MS: the importance of sample preparation. *Bioanalysis*.
  21. High-performance liquid chromatography/tandem mass spectrometric assay for the simultaneous measurement of dopamine, norepinephrine, 5-hydroxytryptamine and cocaine in biological samples. *Journal of neuroscience methods*.
  22. Quantitative determination of dopamine in human plasma by a highly sensitive LC-MS/MS assay: application in preterm neonates. *Journal of pharmaceutical and biomedical analysis*.
  23. Discovery of dopamine glucuronide in rat and mouse brain microdialysis samples using liquid chromatography tandem mass spectrometry. *Analytical chemistry*.
  24. Development and validation of an LC-ESI-MS/MS method for simultaneous determination of levodopa, dopamine, L- $\alpha$ -methyldopa and 3-O-methyldopa in rat plasma. *Journal of Pharmaceutical Investigation*.
  25. Measurements of plasma metanephrines by immunoassay vs liquid chromatography with tandem mass spectrometry for diagnosis of pheochromocytoma. *European journal of endocrinology*.
  26. The  $\alpha$ 2 adrenoceptor antagonist idazoxan alleviates l - DOPA - induced

dyskinesia by reduction of striatal dopamine levels: an in vivo microdialysis study in 6-hydroxydopamine-lesioned rats. *Journal of neurochemistry*.

## 脂溶性维生素

1. A sensitive LC-MS/MS assay of 25OH vitamin D3 and 25OH vitamin D2 in dried blood spots. *Clinica Chimica Acta*.
2. Misleading measures in Vitamin D analysis: a novel LC-MS/MS assay to account for epimers and isobars. *Nutrition journal*.
3. Development of a sensitive LC-MS/MS method for vitamin D metabolites: 1, 25-Dihydroxyvitamin D2&3 measurement using a novel derivatization agent. *Journal of Chromatography B*.
4. Analytical measurement of serum 25-OH-vitamin D3, 25-OH-vitamin D2 and their C3-epimers by LC-MS/MS in infant and pediatric specimens. *Clinical biochemistry*.
5. Quantitative determination of vitamin D metabolites in plasma using UH-PLC-MS/MS. *Analytical and bioanalytical chemistry*.
6. Variation in clinical vitamin D status by DiaSorin Liaison and LC-MS/MS in the presence of elevated 25-OH vitamin D2. *Clinica chimica acta*.
7. An LC-MS/MS method for stable isotope dilution studies of  $\beta$ -carotene bioavailability, bioconversion, and vitamin A status in humans. *Journal of lipid research*.
8. C-3 epimers can account for a significant proportion of total circulating 25-hydroxyvitamin D in infants, complicating accurate measurement and interpretation of vitamin D status. *The Journal of Clinical Endocrinology & Metabolism*.
9. Development and certification of a standard reference material for vitamin D metabolites in human serum. *Analytical chemistry*.
10. Increasing Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)



Throughput by Mass Tagging: A Sample-Multiplexed High-Throughput Assay for 25-Hydroxyvitamin D2 and D3. *Clinical chemistry*.

11. Liquid chromatography-tandem mass spectrometric method for the determination of salivary 25-hydroxyvitamin D3: a noninvasive tool for the assessment of vitamin D status. *Analytical and bioanalytical chemistry*.
12. Rapid analysis of 25-hydroxyvitamin D2 and D3 by liquid chromatography-tandem mass spectrometry and association of vitamin d and parathyroid hormone concentrations in healthy adults. *American journal of clinical pathology*.
13. Quantification of fat-soluble vitamins in human breast milk by liquid chromatography-tandem mass spectrometry. *Journal of Chromatography B*.
14. A cross-sectional study of vitamin D and insulin resistance in children. *Archives of disease in childhood*.
15. Evaluation of automated immunoassays for 25 (OH)-vitamin D determination in different critical populations before and after standardization of the assays. *Clinica Chimica Acta*.
16. Method for simultaneous analysis of eight analogues of vitamin D using liquid chromatography tandem mass spectrometry. *Chemistry Central Journal*.
17. Routine isotope-dilution liquid chromatography-tandem mass spectrometry assay for simultaneous measurement of the 25-hydroxy metabolites of vitamins D2 and D3. *Clinical chemistry*.
18. Development of a Method for the Quantification of 1  $\alpha$ , 25 (OH) 2-Vitamin D3 in Serum by Liquid Chromatography Tandem Mass Spectrometry without Derivatization. *European Journal of Mass Spectrometry*.
19. Determination of 25-hydroxyvitamin D in human plasma using high-performance liquid chromatography tandem mass spectrometry. *Analytical*

chemistry.

20. A simple micro-extraction plate assay for automated LC-MS/MS analysis of human serum 25-hydroxyvitamin D levels. *Journal of Mass Spectrometry*.
21. Dietary, lifestyle, and genetic determinants of vitamin D status: a cross-sectional analysis from the European Prospective Investigation into Cancer and Nutrition (EPIC)-Germany study. *European journal of nutrition*.
22. A simple, sensitive, and high-throughput LC-APCI-MS/MS method for simultaneous determination of vitamin K1, vitamin K1 2, 3-epoxide in human plasma and its application to a clinical pharmacodynamic study of warfarin. *Journal of pharmaceutical and biomedical analysis*.
23. Analytical bias in the measurement of serum 25-hydroxyvitamin D concentrations impairs assessment of vitamin D status in clinical and research settings. *PloS one*.
24. Development and optimization of simplified LC-MS/MS quantification of 25-hydroxyvitamin D using protein precipitation combined with on-line solid phase extraction (SPE). *Journal of Chromatography B*.
25. High-throughput liquid-liquid extraction and LCMSMS assay for determination of circulating 25 (OH) vitamin D3 and D2 in the routine clinical laboratory. *Clinica Chimica Acta*.
26. Development of a candidate reference measurement procedure for the determination of 25-hydroxyvitamin D3 and 25-hydroxyvitamin D2 in human serum using isotope-dilution liquid chromatography tandem mass spectrometry. *Analytical chemistry*.
27. Development and validation of an LC-MS/MS based method for quantification of 25 hydroxyvitamin D2 and 25 hydroxyvitamin D3 in human serum and plasma. *Journal of Chromatography B*.

28. Determination of vitamins A, D and E in a small volume of human plasma by a high - throughput method based on liquid chromatography/tandem mass spectrometry. *Rapid Communications in Mass Spectrometry*.
29. A simple and precise LC-MS/MS method for the simultaneous determination of serum 25-hydroxyvitamin D3 and D2 without interference from the C3 epimer. *Analytical Methods*.
30. Four years of LC-MS/MS method for quantification of 25-hydroxyvitamin D (D2 + D3) for clinical practice. *Journal of Chromatography B*.
31. Differential extraction of endogenous and exogenous 25-OH-vitamin D from serum makes the accurate quantification in liquid chromatography-tandem mass spectrometry assays challenging. *Annals of clinical biochemistry*.
32. Triple quadrupole versus high resolution quadrupole-time-of-flight mass spectrometry for quantitative LC-MS/MS analysis of 25-hydroxyvitamin D in human serum. *Journal of The American Society for Mass Spectrometry*.
33. Multianalyte quantification of vitamin B6 and B2 species in the nanomolar range in human plasma by liquid chromatography-tandem mass spectrometry. *Clinical Chemistry*.
34. Method for the determination of vitamin K homologues in human plasma using high-performance liquid chromatography-tandem mass spectrometry. *Analytical chemistry*.
35. Determination of the vitamin D analog EB 1089 (seocalcitol) in human and pig serum using liquid chromatography-tandem mass spectrometry. *Journal of Chromatography B: Biomedical Sciences and Applications*.
36. Menadione (vitamin K3) is a catabolic product of oral phylloquinone (vitamin K1) in the intestine and a circulating precursor of tissue menaquinone-4 (vitamin K2) in rats. *Journal of Biological Chemistry*.



37. Quantitative determination of plasma vitamin K1 by high-performance liquid chromatography coupled to isotope dilution tandem mass spectrometry. *Analytical biochemistry*.
38. Variation in clinical vitamin D status by DiaSorin Liaison and LC-MS/MS in the presence of elevated 25-OH vitamin D2. *Clinica chimica acta*.
39. The 25-hydroxyvitamin D3 C-3 epimer: distribution, correlates, and reclassification of 25-hydroxyvitamin D status in the population-based Atherosclerosis Risk in Communities Study (ARIC). *Clinica chimica acta*.
40. Quantification of the 3 $\alpha$  and 3 $\beta$  epimers of 25-hydroxyvitamin D3 in dried blood spots by LC-MS/MS using artificial whole blood calibration and chemical derivatization. *Talanta*.
41. Agreement of seven 25-hydroxy vitamin D3 immunoassays and three high performance liquid chromatography methods with liquid chromatography tandem mass spectrometry. *Clinical chemistry and laboratory medicine*.
42. Performance evaluation of Siemens ADVIA centaur and Roche MODULAR analytics E170 total 25-OH vitamin D assays. *Clinical biochemistry*.
43. Serum C3 epimer of 25-hydroxyvitamin D and its determinants in adults: a national health examination survey in Thais. *Osteoporosis International*.
44. Candidate reference measurement procedure for the determination of (24 R), 25-dihydroxyvitamin D3 in human serum using isotope-dilution liquid chromatography-tandem mass spectrometry. *Analytical chemistry*.
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46. Minimizing matrix effects for the accurate quantification of 25-hydroxyvitamin D metabolites in dried blood spots by LC-MS/MS. *Clinical chemistry*.

47. A comparison between two different automated total 25-hydroxyvitamin D immunoassay methods using liquid chromatography-tandem mass spectrometry. *Biochemia medica*.
48. Comparison of two 25-hydroxyvitamin D immunoassays to liquid chromatography-tandem mass spectrometry in assessing samples from the Chinese population. *Clinica Chimica Acta*.
49. Establishing an accuracy basis for the vitamin D external quality assessment scheme (DEQAS). *Journal of AOAC International*.
50. Validation and comparison of a rapid liquid chromatography tandem mass spectrometry method for serum 25OHD with the efficiency of separating 3-epi 25OHD3. *Clinical biochemistry*.
51. Vitamin D status after a high dose of cholecalciferol in healthy and burn subjects. *Burns*.
52. Development of an improved standard reference material for vitamin D metabolites in human serum. *Analytical chemistry*.
53. A fast and simple method for simultaneous measurements of 25 (OH) D, 24, 25 (OH) 2D and the vitamin D metabolite ratio (VMR) in serum samples by LC-MS/MS. *Clinica Chimica Acta*.
54. Combined measurement of 6 fat-soluble vitamins and 26 water-soluble functional vitamin markers and amino acids in 50  $\mu$  L of serum or plasma by high-throughput mass spectrometry. *Analytical chemistry*.
55. Quality assessment of vitamin D metabolite assays used by clinical and research laboratories. *The Journal of steroid biochemistry and molecular biology*.
56. Comparison of the effect of daily versus bolus dose maternal vitamin D3 supplementation on the 24, 25-dihydroxyvitamin D3 to 25-hydroxyvitamin D3

- ratio. Bone.
57. Conversion of Phylloquinone (Vitamin K1) into Menaquinone-4 (Vitamin K2) in Mice two possible routes for menaquinone-4 accumulation in cerebra of mice. *Journal of Biological Chemistry*.
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  59. Influence of CYP4F2 polymorphisms and plasma vitamin K levels on warfarin sensitivity in Japanese pediatric patients. *Drug metabolism and pharmacokinetics*.
  60. Liquid chromatography-tandem mass spectrometry method for the determination of vitamin K homologues in human milk after overnight cold saponification. *Journal of Food Composition and Analysis*.
  61. The ratio of serum 24, 25-dihydroxyvitamin D3 to 25-hydroxyvitamin D3 is predictive of 25-hydroxyvitamin D3 response to vitamin D3 supplementation. *The Journal of steroid biochemistry and molecular biology*.
  62. A new quantitative LC tandem mass spectrometry assay for serum 25-hydroxy vitamin D. *Steroids*.
  63. The high prevalence of hypovitaminosis D in China: a multicenter vitamin D status survey. *Medicine*.
  64. Disulfide-dependent Protein Folding Is Linked to Operation of the Vitamin K Cycle in the Endoplasmic Reticulum a protein disulfide isomerase-VKORC1 redox enzyme complex appears to be responsible for vitamin K1 2, 3-epoxide reduction. *Journal of Biological Chemistry*.
  65. Determination of 1,25-dihydroxyvitamin D2 and 1,25-dihydroxyvitamin D3 in human serum using liquid chromatography with tandem mass spectrometry. *Journal of Chromatography B*.



## 水溶性维生素

1. Simultaneous determination of water-soluble vitamins in selected food matrices by liquid chromatography/electrospray ionization tandem mass spectrometry. *Rapid Communications in Mass Spectrometry*.
2. Inhibition of heterocyclic amine formation by water-soluble vitamins in Maillard reaction model systems and beef patties. *Food Chemistry*.
3. Simultaneous quantification of 21 water soluble vitamin circulating forms in human plasma by liquid chromatography-mass spectrometry. *Journal of Chromatography A*.
4. Quantitative profiling of biomarkers related to B-vitamin status, tryptophan metabolism and inflammation in human plasma by liquid chromatography/tandem mass spectrometry. *Rapid Communications in Mass Spectrometry*.
5. A rapid and sensitive LC-MS/MS method for determination of coenzyme Q 10, in tobacco (*Nicotiana tabacum*, L.) leaves. *Journal of separation science*.
6. Mitochondrial Coenzyme Q10 Determination by Isotope-Dilution Liquid Chromatography-Tandem Mass Spectrometry. *Clinical Chemistry*.
7. Quantitation of Ubiquinone (Coenzyme Q10) in Serum/Plasma Using Liquid Chromatography Electrospray Tandem Mass Spectrometry (ESI-LC-MS/MS). *Methods in Molecular Biology*.
8. Quantification of the Reduced Form of Coenzyme Q10, Ubiquinol, in Dietary Supplements with HPLC-ESI-MS/MS. *Food Analytical Methods*.

## 胆汁酸类

1. Simultaneous characterization of bile acids and their sulfate metabolites in mouse liver, plasma, bile, and urine using LC-MS/MS. *Journal of pharmaceutical and biomedical analysis*.
2. Rapid quantification of bile acids and their conjugates in serum by liquid chromatography-tandem mass spectrometry. *Journal of Chromatography B*.
3. Analysis of bile acids profile in human serum by ultrafiltration clean-up and LC-MS/MS. *Chromatographia*.
4. High-performance liquid chromatography-tandem mass spectrometry for the analysis of bile acid profiles in serum of women with intrahepatic cholestasis of pregnancy. *Journal of Chromatography B*.
5. Measurement of serum 7  $\alpha$ -hydroxy-4-cholesten-3-one (or 7  $\alpha$  C4), a surrogate test for bile acid malabsorption in health, ileal disease and irritable bowel syndrome using liquid chromatography-tandem mass spectrometry. *Neurogastroenterology & Motility*.
6. Simultaneous determination of geniposide, baicalin, cholic acid and hyodeoxycholic acid in rat serum for the pharmacokinetic investigations by high performance liquid chromatography-tandem mass spectrometry. *Journal of Chromatography B*.
7. Rapid analysis of bile acids in different biological matrices using LC-ESI-MS/MS for the investigation of bile acid transformation by mammalian gut bacteria. *Analytical and bioanalytical chemistry*.
8. High performance liquid chromatography-tandem mass spectrometry for the determination of bile acid concentrations in human plasma. *Journal of Chromatography B*.

9. Bile acid metabolome after an oral lipid tolerance test by liquid chromatography-tandem mass spectrometry (LC-MS/MS). PloS one.
10. Quantitative targeted bile acid profiling as new markers for DILI in a model of methapyrilene-induced liver injury in rats. Toxicology.
11. Analysis of metabolome changes in the bile acid pool in feces and plasma of antibiotic-treated rats. Toxicology and applied pharmacology.
12. Determination of Bile Acids in Piglet Bile by Solid Phase Extraction and Liquid Chromatography - Electrospray Tandem Mass Spectrometry. Lipids.
13. The profile of bile acids and their sulfate metabolites in human urine and serum. Journal of Chromatography B.
14. Profiling of urinary bile acids in piglets by a combination of enzymatic deconjugation and targeted LC-MRM-MS. Journal of lipid research.
15. Species differences in bile acids II. Bile acid metabolism. Journal of Applied Toxicology.



## 氨基酸类

1. High-throughput quantitation of amino acids in rat and mouse biological matrices using stable isotope labeling and UPLC-MS/MS analysis. *Journal of Chromatography B*.
2. Simultaneous bioanalysis of L-arginine, L-citrulline, and dimethylarginines by LC-MS/MS. *Journal of Chromatography B*.
3. Determination of 20 underivatized proteinic amino acids by ion-pairing chromatography and pneumatically assisted electrospray mass spectrometry. *Journal of Chromatography A*.
4. LC-MS/MS identification of the one-carbon cycle metabolites in human plasma. *Electrophoresis*.
5. Highly sensitive and positively charged precolumn derivatization reagent for amines and amino acids in liquid chromatography/electrospray ionization tandem mass spectrometry. *Rapid Communications in Mass Spectrometry*.
6. Isotope dilution liquid chromatography-tandem mass spectrometry for quantitative amino acid analysis. *Amino Acid Analysis*.
7. Amino acid profiles in human tear fluids analyzed by high-performance liquid chromatography and electrospray ionization tandem mass spectrometry. *American journal of ophthalmology*.
8. Comparison of different amino acid derivatives and analysis of rat brain microdialysates by liquid chromatography tandem mass spectrometry. *Analytica chimica acta*.
9. Validated quantitation of underivatized amino acids in human blood samples by volatile ion-pair reversed-phase liquid chromatography coupled to isotope dilution tandem mass spectrometry. *Analytical chemistry*.

10. Analysis of free amino acids in *Russula griseocarnosa* harvested at different stages of maturity using iTRAQ<sup>®</sup>-LC-MS/MS. Food analytical methods.
11. Amino acid metabolomics using LC-MS/MS: assessment of cancer-cell resistance in a simulated tumor microenvironment. Analytical Sciences.
12. Precolumn derivatization reagents for high-speed analysis of amines and amino acids in biological fluid using liquid chromatography/electrospray ionization tandem mass spectrometry. Rapid Communications in Mass Spectrometry.
13. Detection of 28 neurotransmitters and related compounds in biological fluids by liquid chromatography/tandem mass spectrometry. Rapid Communications in Mass Spectrometry.
14. Development of a method for the analysis of underivatized amino acids by liquid chromatography/tandem mass spectrometry: application on Standard Reference Material 1649a (urban dust). Talanta.
15. Quantitative determination of sarcosine and related compounds in urinary samples by liquid chromatography with tandem mass spectrometry. Analytical chemistry.

## 蛋白多肽类

1. Evaluation of peptide adsorption-controlled liquid chromatography-tandem mass spectrometric (PAC-LC-MS/MS) method for simple and simultaneous quantitation of amyloid  $\beta$  1-38, 1-40, 1-42 and 1-43 peptides in dog cerebrospinal fluid. *Journal of Chromatography B*.
2. An UHPLC-MS/MS method for simultaneous quantification of human amyloid beta peptides A  $\beta$  1-38, A  $\beta$  1-40 and A  $\beta$  1-42 in cerebrospinal fluid using micro-elution solid phase extraction. *Journal of Chromatography B*.
3. Quantification of the bombesin/gastrin releasing peptide antagonist RC-3095 by liquid chromatography-tandem mass spectrometry. *Journal of Chromatography B*.
4. An LC-MS/MS assay to determine plasma pharmacokinetics of cyclic thymic hexapeptide (cTP6) in rhesus monkeys. *Journal of Chromatography B*.
5. Label-free Quantitative Analysis of One-dimensional PAGE LC-MS/MS Proteome Application on Angiotensin II-Stimulated Smooth Muscle Cells Secretome. *Molecular & Cellular Proteomics*.
6. Novel angiotensin I-converting enzyme inhibitory peptides derived from edible mushroom *Agaricus bisporus* (JE Lange) Imbach identified by LC-MS/MS. *Food chemistry*.
7. LC-MS/MS quantification of bioactive angiotensin I-converting enzyme inhibitory peptides in rye malt sourdoughs. *Journal of agricultural and food chemistry*.
8. Novel angiotensin I-converting enzyme inhibitory peptides derived from an edible mushroom, *Pleurotus cystidiosus* OK Miller identified by LC-MS/MS. *BMC complementary and alternative medicine*.



9. Albumin binding as a general strategy for improving the pharmacokinetics of proteins. *Journal of Biological Chemistry*.
10. Quantification of urinary albumin by using protein cleavage and LC-MS/MS. *Clinical chemistry*.
11. A novel and cost effective method of removing excess albumin from plasma/serum samples and its impacts on LC-MS/MS bioanalysis of therapeutic proteins. *Analytical chemistry*.
12. Quantification of seven apolipoproteins in human plasma by proteotypic peptides using fast LC-MS/MS. *Proteomics-Clinical Applications*.
13. Quantification of sphingosine 1-phosphate by validated LC-MS/MS method revealing strong correlation with apolipoprotein M in plasma but not in serum due to platelet activation during blood coagulation. *Analytical and bioanalytical chemistry*.
14. On-column trypsin digestion coupled with LC-MS/MS for quantification of apolipoproteins. *Journal of proteomics*.
15. The application of ultra-performance liquid chromatography/tandem mass spectrometry to the detection and quantitation of apolipoproteins in human serum. *Rapid Communications in Mass Spectrometry*.
16. Simultaneous quantification of apolipoprotein A-I and apolipoprotein B by liquid chromatography-multiple reaction monitoring mass spectrometry. *Clinical chemistry*.
17. Quantification of C-reactive protein in the serum of patients with rheumatoid arthritis using multiple reaction monitoring mass spectrometry and  $^{13}\text{C}$ -labeled peptide standards. *Proteomics*.
18. Expression and characterization of  $^{15}\text{N}$ -labeled human C-reactive protein in *Escherichia coli* and *Pichia pastoris* for use in isotope-dilution mass spec-

trometry. Protein expression and purification.

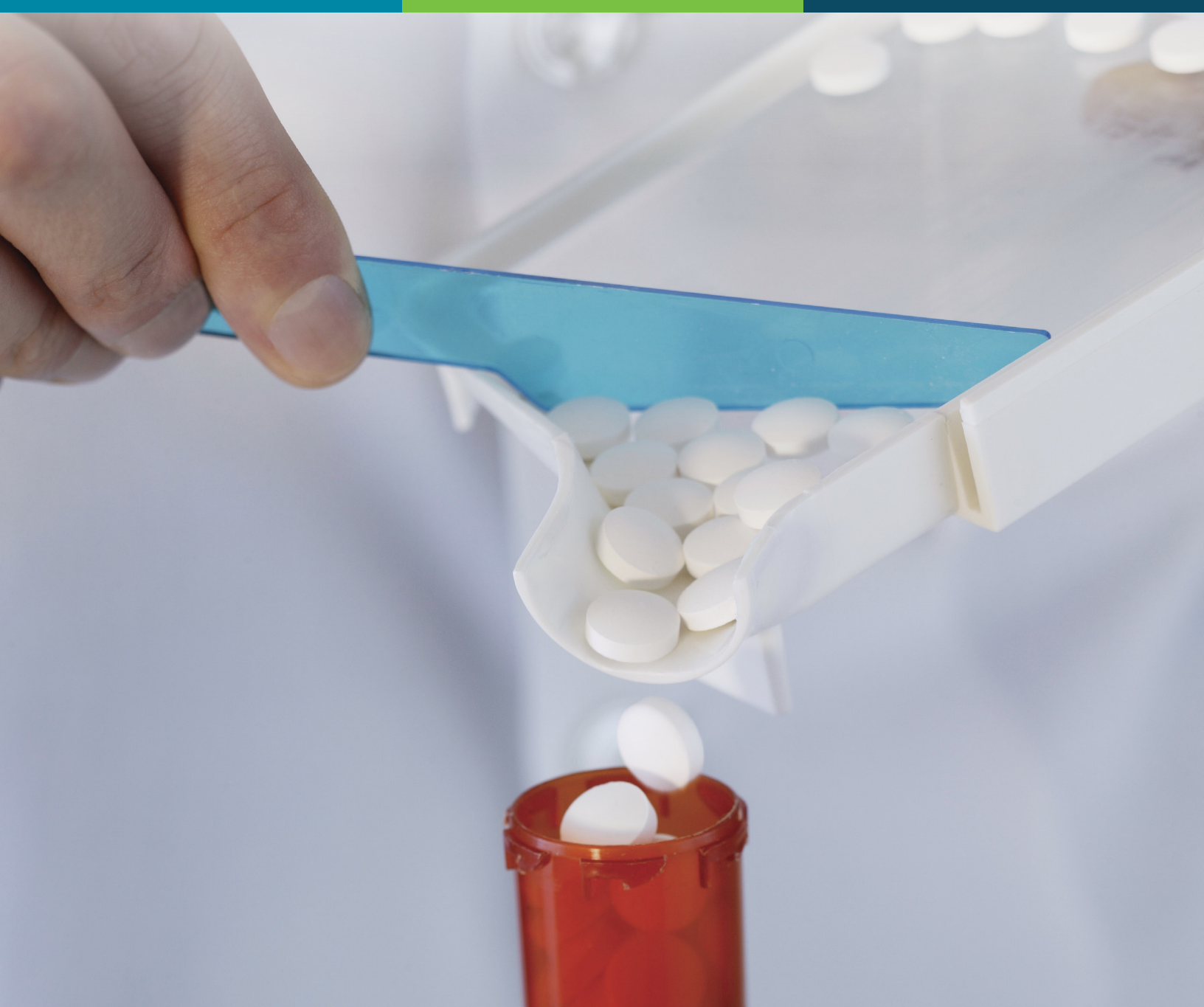
19. Reference measurement procedure development for C-reactive protein in human serum. *Analytical chemistry*.
20. High-throughput ultra-high-performance liquid chromatography/ tandem mass spectrometry quantitation of insulin-like growth factor\_I and leucine-rich  $\alpha$ -2-glycoprotein in serum as biomarkers of recombinant human growth hormone administration. *Rapid Communications in Mass Spectrometry*.
21. Clinical quantitation of prostate-specific antigen biomarker in the low nanogram/milliliter range by conventional bore liquid chromatography-tandem mass spectrometry (multiple reaction monitoring) coupling and correlation with ELISA tests. *Molecular & Cellular Proteomics*.
22. Hydrophilic interaction liquid chromatography as second dimension in multidimensional chromatography with an anionic trapping strategy: application to prostate-specific antigen quantification. *Journal of Chromatography A*.
23. Application of DBS for quantitative assessment of the peptide Exendin-4; comparison of plasma and DBS method by UHPLC-MS/MS. *Bioanalysis*.
24. Differential mobility spectrometry tandem mass spectrometry with multiple ion monitoring for the bioanalysis of liraglutide. *Analytical and bioanalytical chemistry*.

## 其他类

1. Determination of glyceemic monitoring marker 1,5-anhydroglucitol in plasma by liquid chromatography-electrospray tandem mass spectrometry. Journal of Chromatography B.
2. Longitudinal changes in total body creatine pool size and skeletal muscle mass using the D3-creatine dilution method. Journal of cachexia, sarcopenia and muscle.
3. LC-MS-MS measurements of urinary creatinine and the application of creatinine normalization technique on cotinine in smokers' 24 hour urine. Journal of analytical methods in chemistry.
4. Determination of Guanidinoacetate and Creatine in Urine and Plasma by Liquid Chromatography-Tandem Mass Spectrometry. Clinical chemistry.
5. Simultaneous determination of creatine and guanidinoacetate in plasma by liquid chromatography-tandem mass spectrometry (LC-MS/MS). Journal of pharmaceutical and biomedical analysis.
6. A clinical biomarker assay for the quantification of d3-creatinine and creatinine using LC-MS/MS. Bioanalysis.
7. Quantitative determination of guanidinoacetate and creatine in dried blood spot by flow injection analysis-electrospray tandem mass spectrometry. Clinica chimica acta.



# 治疗药物监测（TDM）篇



## 镇定止痛药类

1. A hybrid liquid chromatography-mass spectrometry strategy in a forensic laboratory for opioid, cocaine and amphetamine classes in human urine using a hybrid linear ion trap-triple quadrupole mass spectrometer. *Journal of Chromatography A*.
2. A low blood volume LC-MS/MS assay for the quantification of fentanyl and its major metabolites norfentanyl and despropionyl fentanyl in children. *J. Sep. Sci.*
3. A new approach to the application of solid phase extraction disks with LC-MS/MS for the analysis of drugs on a 96-well plate format. *Journal of Pharmaceutical and Biomedical Analysis*.
4. A Rapid and Sensitive High-Performance Liquid Chromatography-Electrospray Ionization-Triple Quadrupole Mass Spectrometry Method for the Quantitation of Oxycodone in Human Plasma. *Journal of Chromatographic Science*.
5. A rapid quantitative method of carisoprodol and meprobamate by liquid chromatography-tandem mass spectrometry. *Journal of Chromatography B*.
6. A sensitive assay for the quantification of morphine and its active metabolites in human plasma and dried blood spots using high-performance liquid chromatography-tandem mass spectrometry. *Anal Bioanal Chem*.
7. A sensitive LC-MS/MS method using silica column and aqueous /organic mobile phase for the analysis of loratadine and descarboethoxy-loratadine in human plasma. *Journal of Pharmaceutical and Biomedical Analysis*.
8. Therapeutic Monitoring of Opioids: A Sensitive LC-MS/MS Method for Quantitation of Several Opioids Including Hydrocodone and Its Metabolites. *Biological and Pharmaceutical Bulletin*.

9. A simple extraction and LC-MS/MS approach for the screening and identification of over 100 analytes in eight different matrices. Drug testing and analysis.
10. A Simple Liquid Chromatography-Tandem Mass Spectrometry Method for Determination of Plasma Fentanyl Concentration in Rats and Patients with Cancer Pain. Biological and Pharmaceutical Bulletin.
11. A validated hybrid quadrupole linear ion-trap LC-MS method for the analysis of morphine and morphine glucuronides applied to opiate deaths. Forensic Science International.
12. Accelerated quantification of amphetamine enantiomers in human urine using chiral liquid chromatography and on-line column-switching coupled with tandem mass spectrometry. Anal Bioanal Chem.
13. An atmospheric pressure chemical ionisation liquid chromatographic-tandem mass spectrometry method for the analysis of benzodiazepines in urine. Journal of Chromatography B.
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